

3910  
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JAN 1 1964

Network Storage System  
90

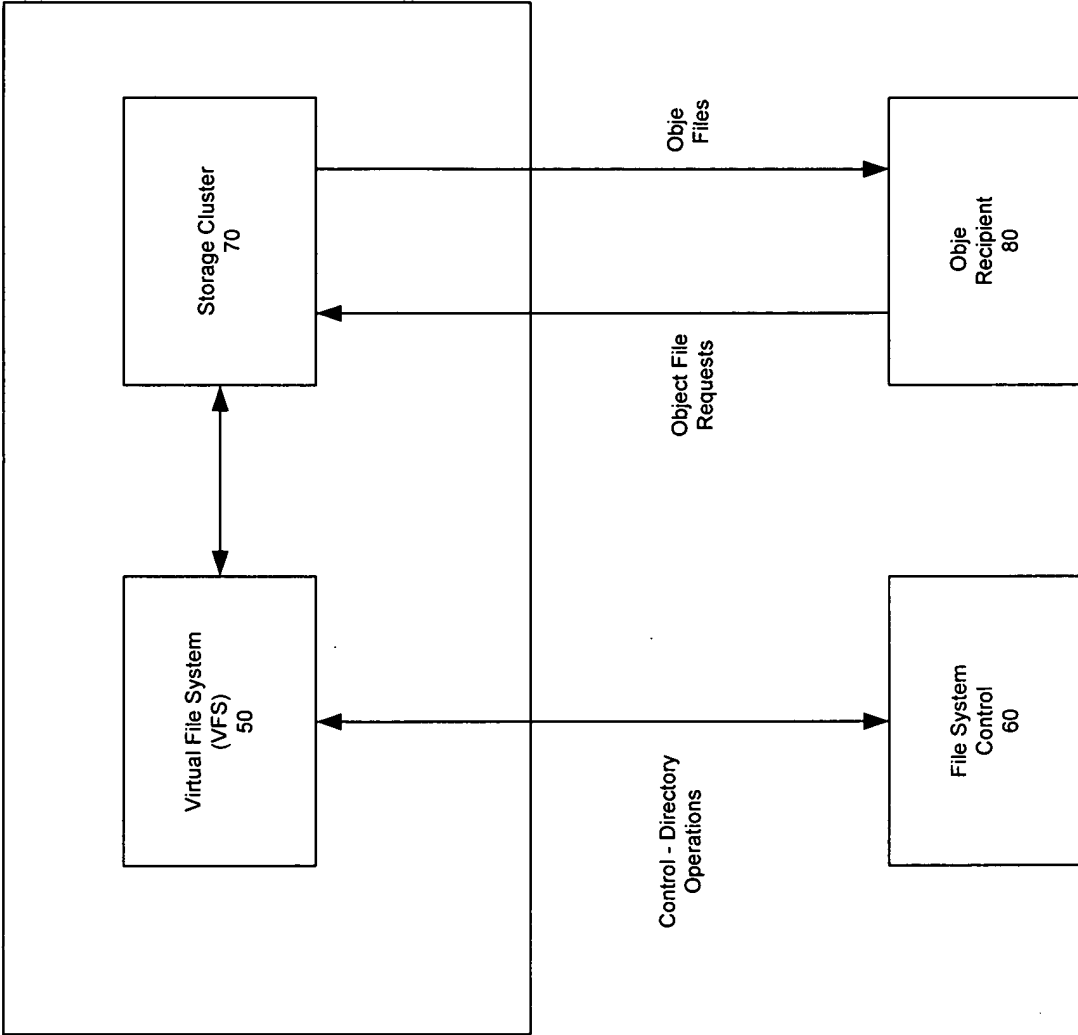


Figure 1

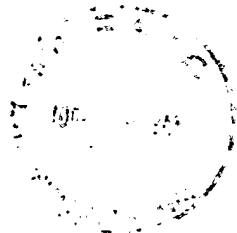
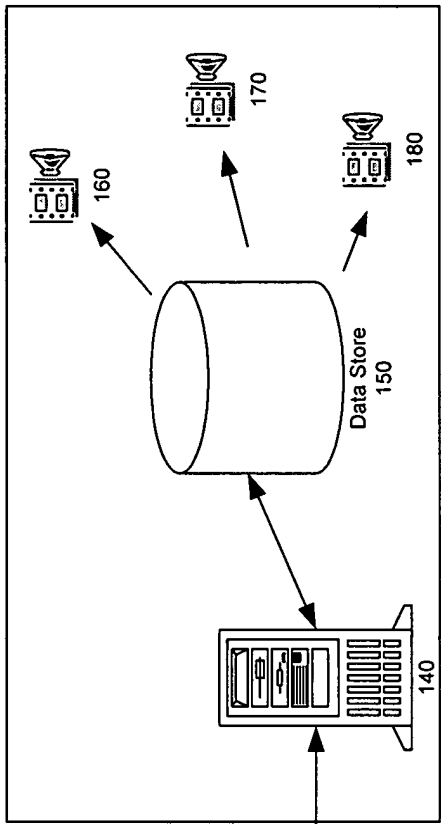
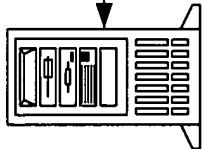


FIG. 2

Storage Service  
130

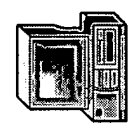


Content Origin Server  
120



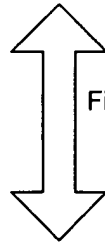
HTTP Requests  
for HTML Files

HTTP Requests  
For Object Files



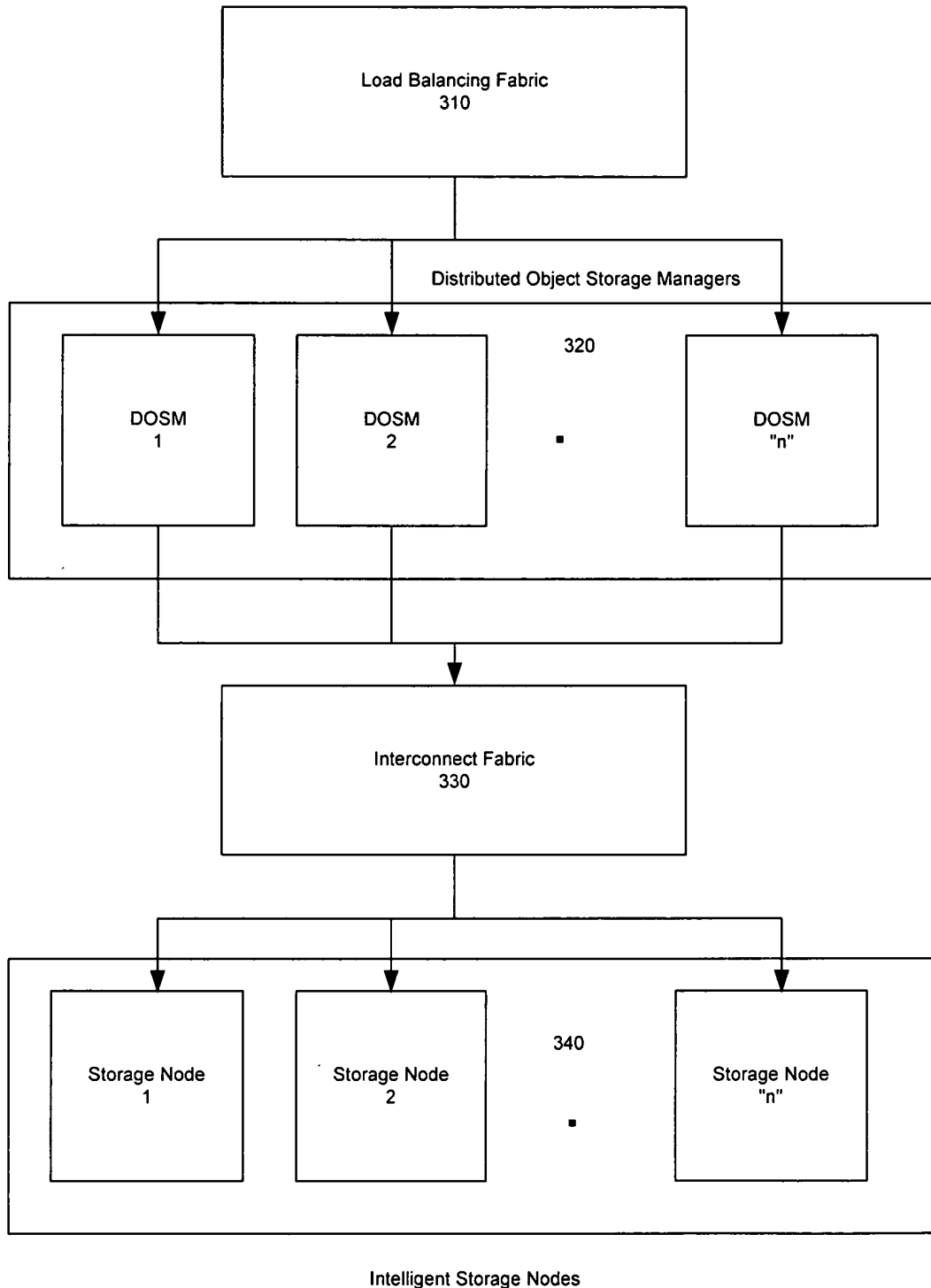
End-User Computer  
100

Figure 2

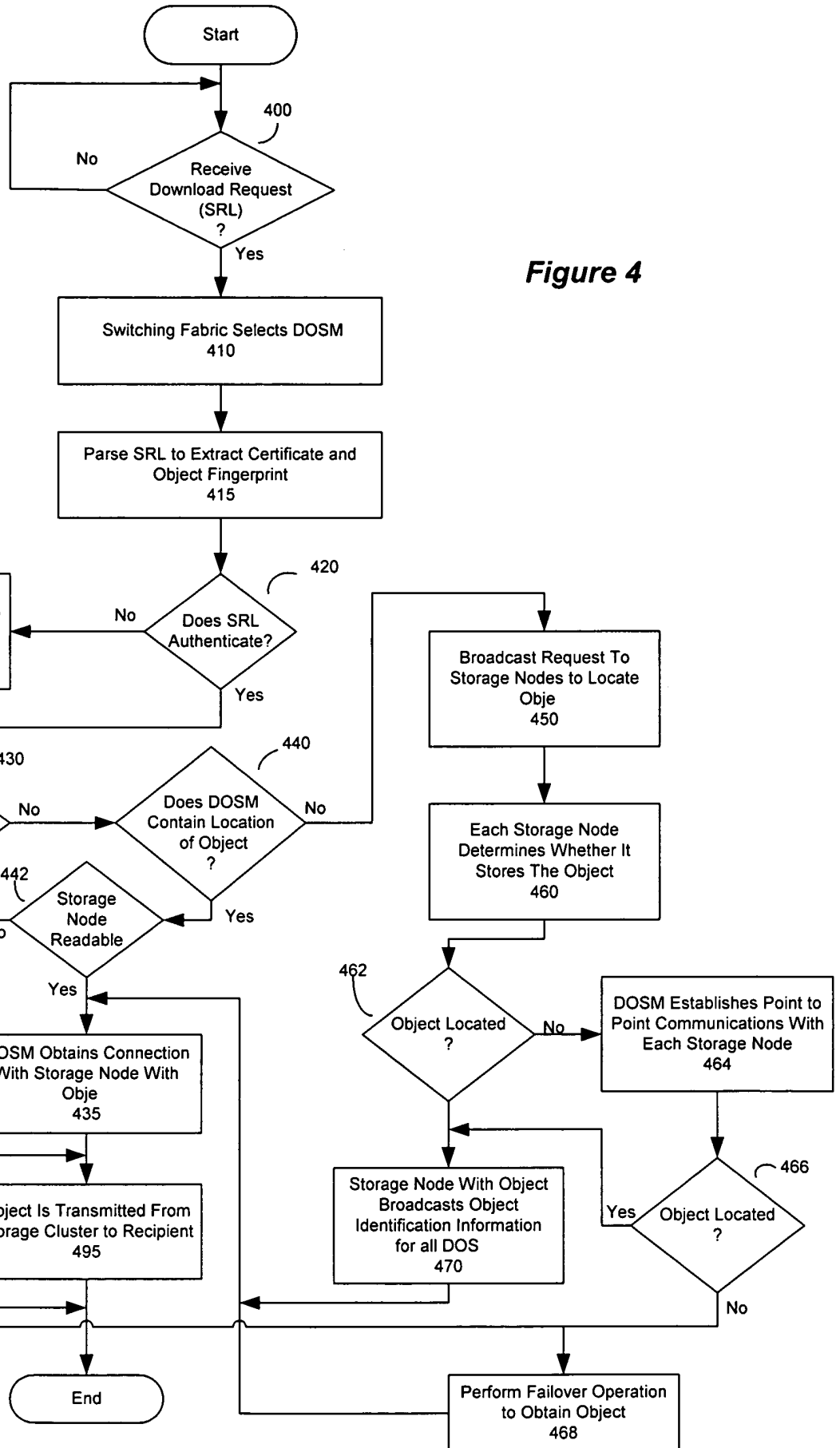


File Upload/Download  
Operations

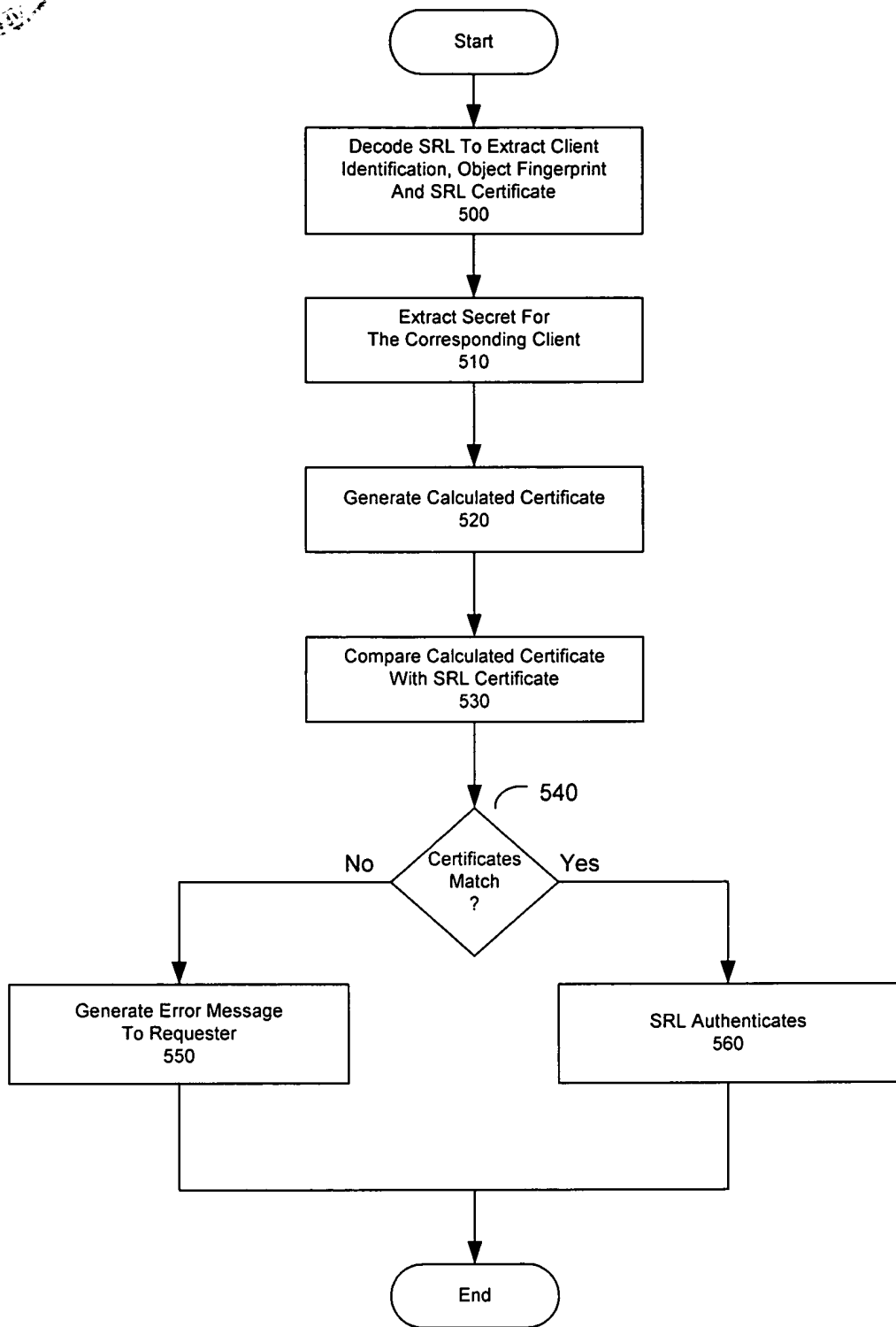
300



**Figure 3**



**Figure 4**






**Figure 5**

DOSM File Look-up Table  
610

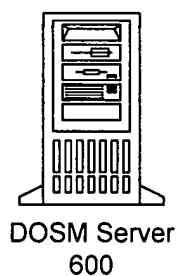
File Id	IP Addr	Disk Id
file1.MD5	10.3.100	3
file2.MD5	10.3.098	1
file3.MD5	10.3.050	6
file4.MD5	10.3.100	2
file5.MD5	10.3.098	1
file6.MD5	10.3.050	8

Data Cache  
620

 Film Snippet
 Advertisement
 Film Preview

State Table  
630

Read - Write State of Storage Nodes
Health of Storage Nodes
Load of Storage Nodes - Storage Capacity - Number of I/O Operatio Per Second



**Figure 6**



Patented 2010  
U.S. Pat. No. 7,811,111

700

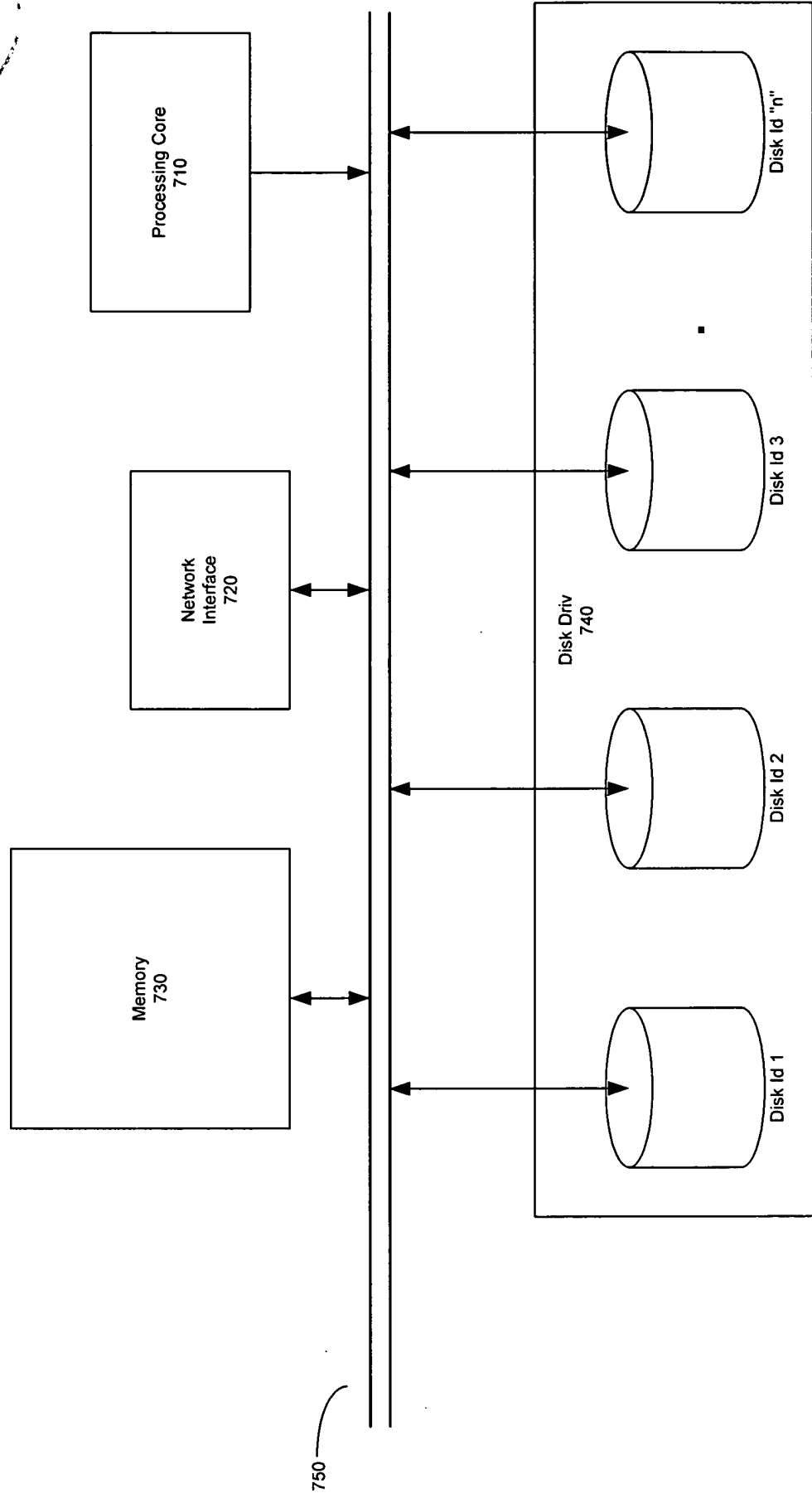
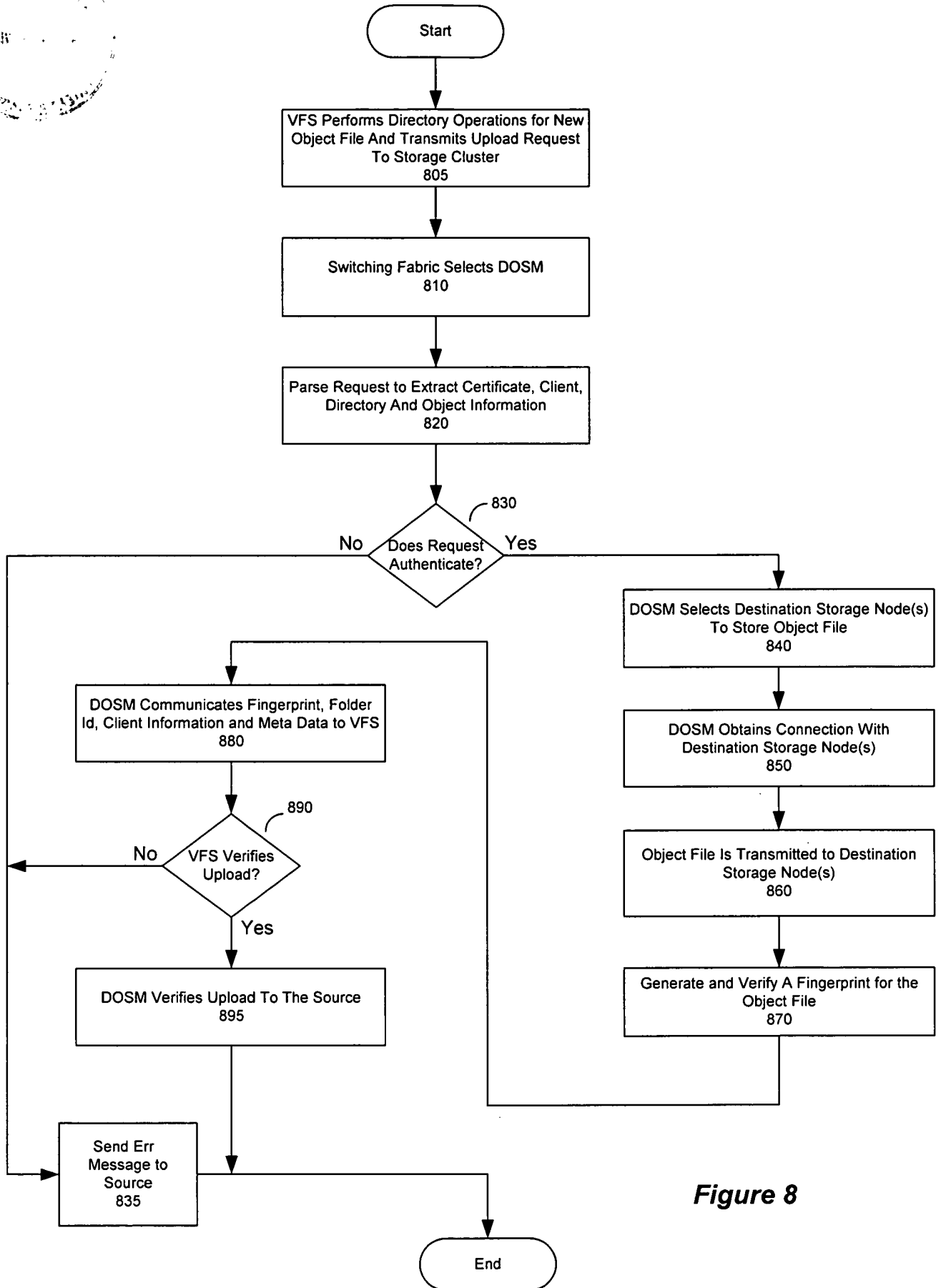
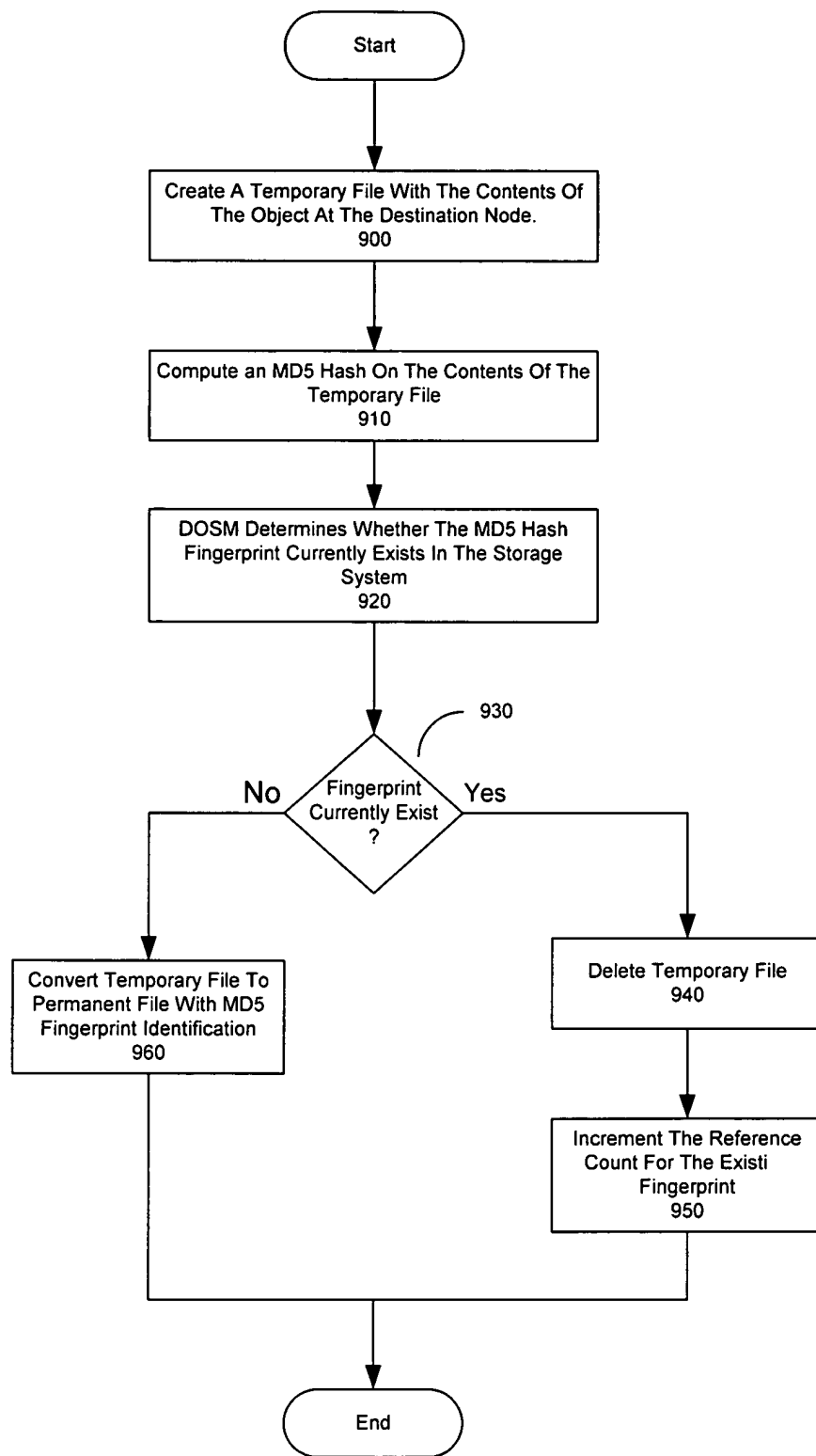


Figure 7



**Figure 8**





**Figure 9**

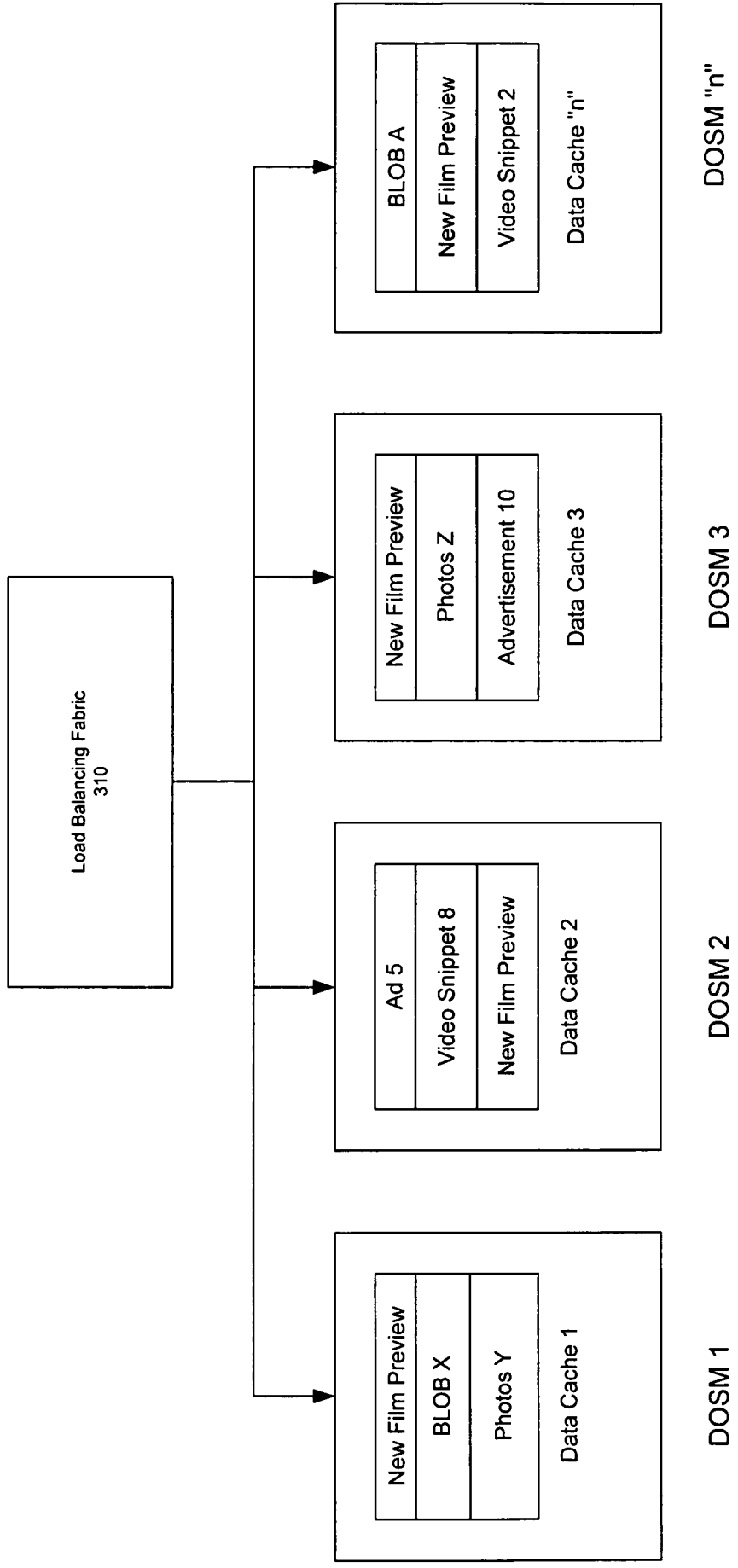
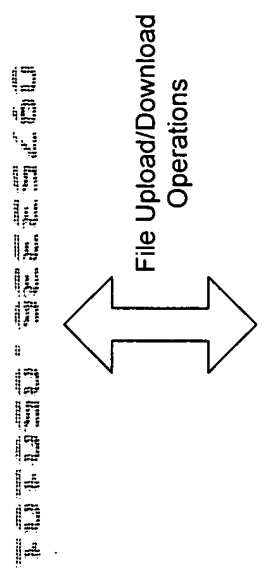
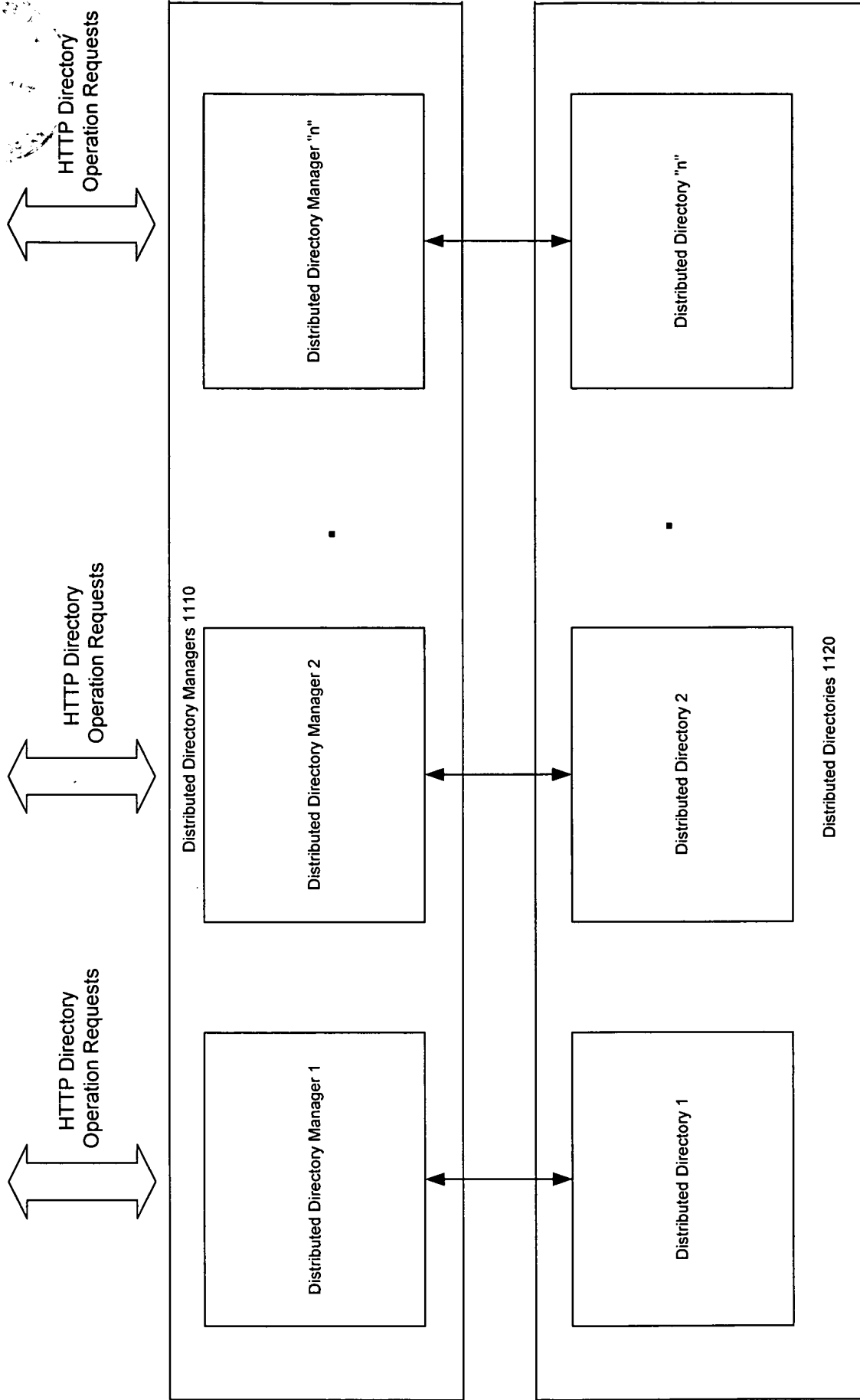


Figure 10



**Figure 11**

Customer Table

Customer Id	Customer Name	Customer Reserved Fiel
1	Customer	[Customer stores data ...]
2	Customer	[Customer stores data ...]
3	Customer C	[Customer stores data ...]
4	Customer D	[Customer stores data ...]

1200

Folder Tab

Customer Id	Folder Id	Folder Parent Id	Metadata
3	2	-	[Reserved]
3	100	2	[Reserved]
3	251	2	[Reserved]
3	166	251	[Reserved]

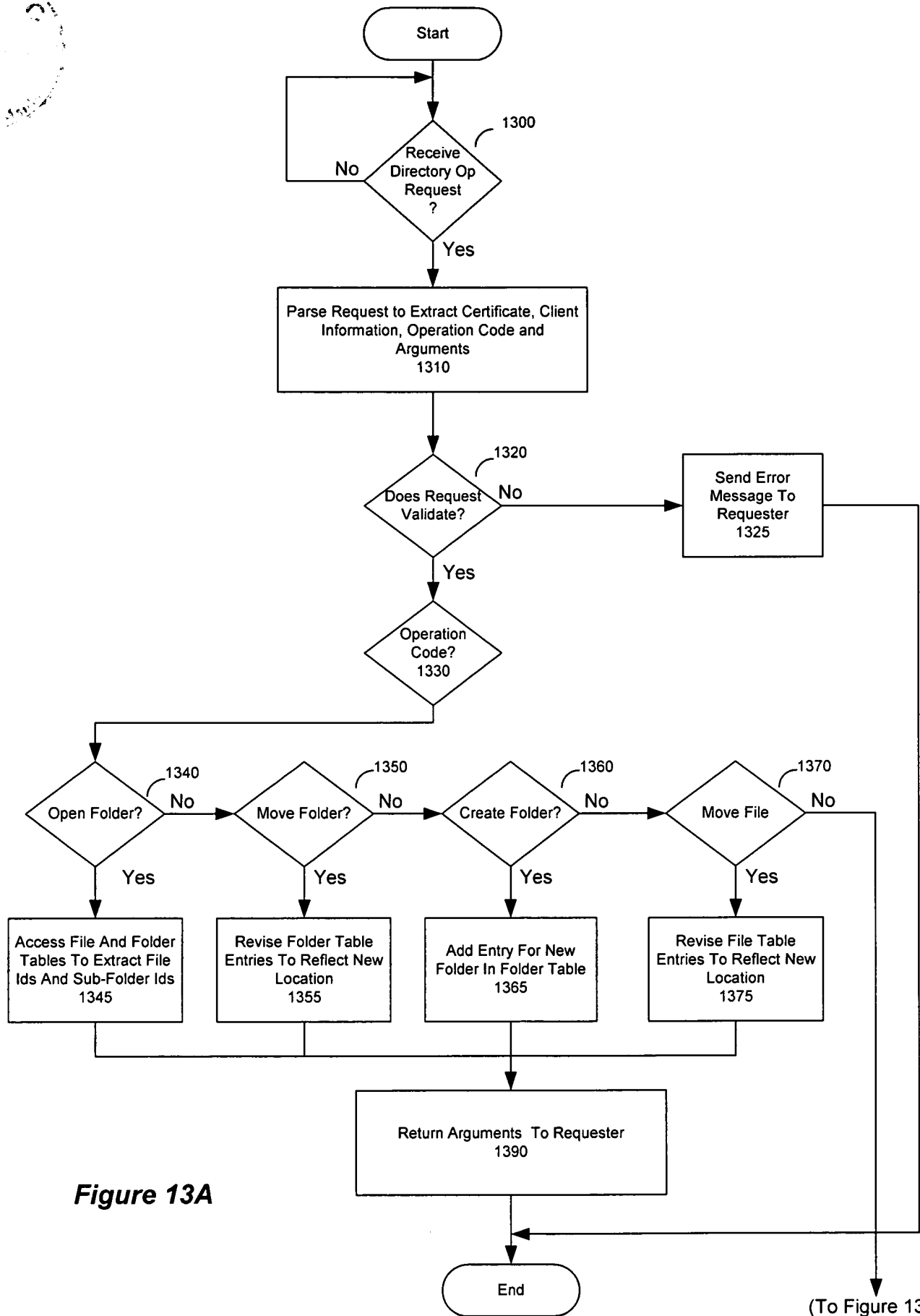
1210

File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata
3	52.MD5	100	2	[Reserved]
3	55.MD5	100	2	[Reserved]
3	99.MD5	166	251	[Reserved]
3	67.MD5	166	251	[Reserved]

1220

**Figure 12**



**Figure 13A**

(To Figure 13B)

(From Figure 13A)

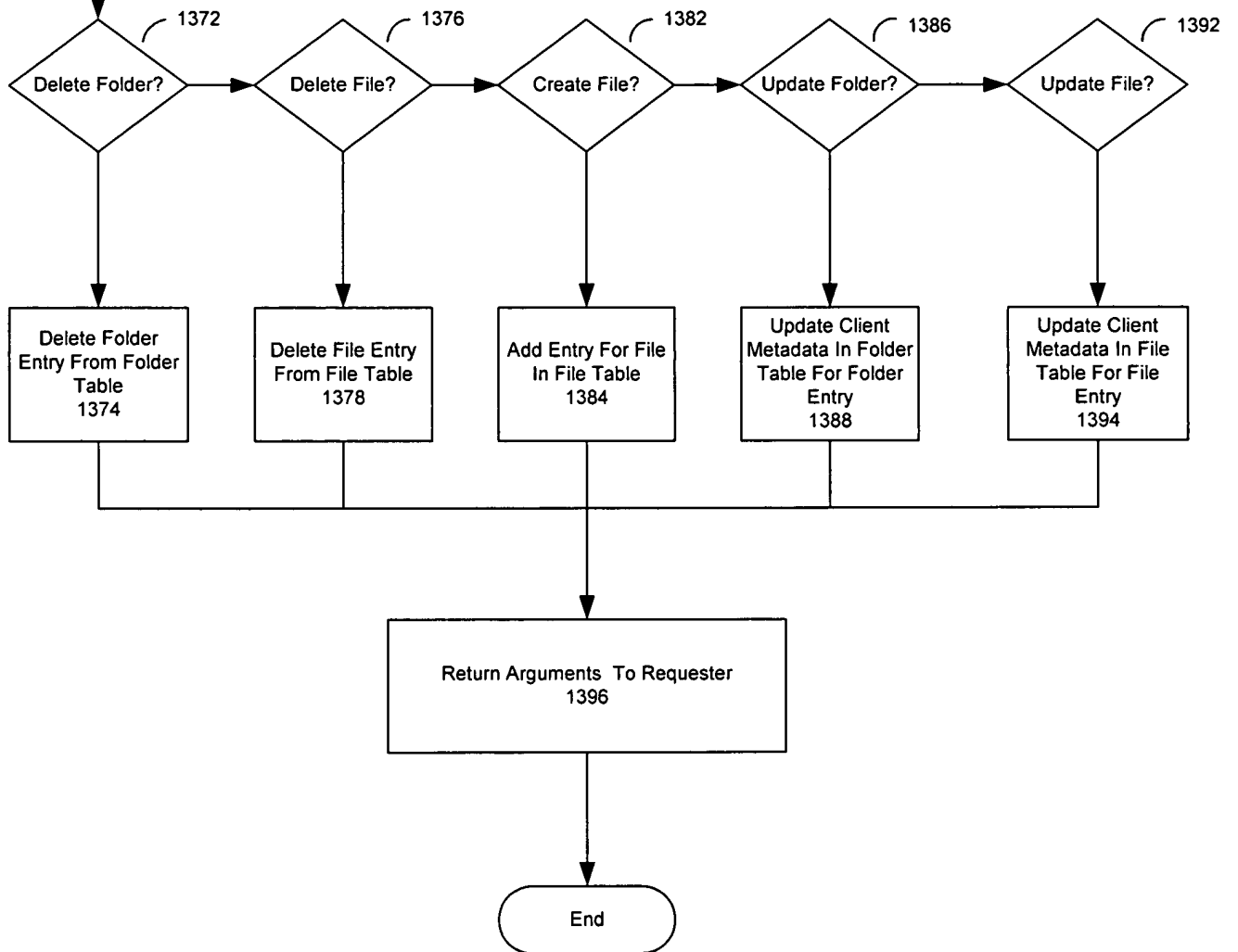
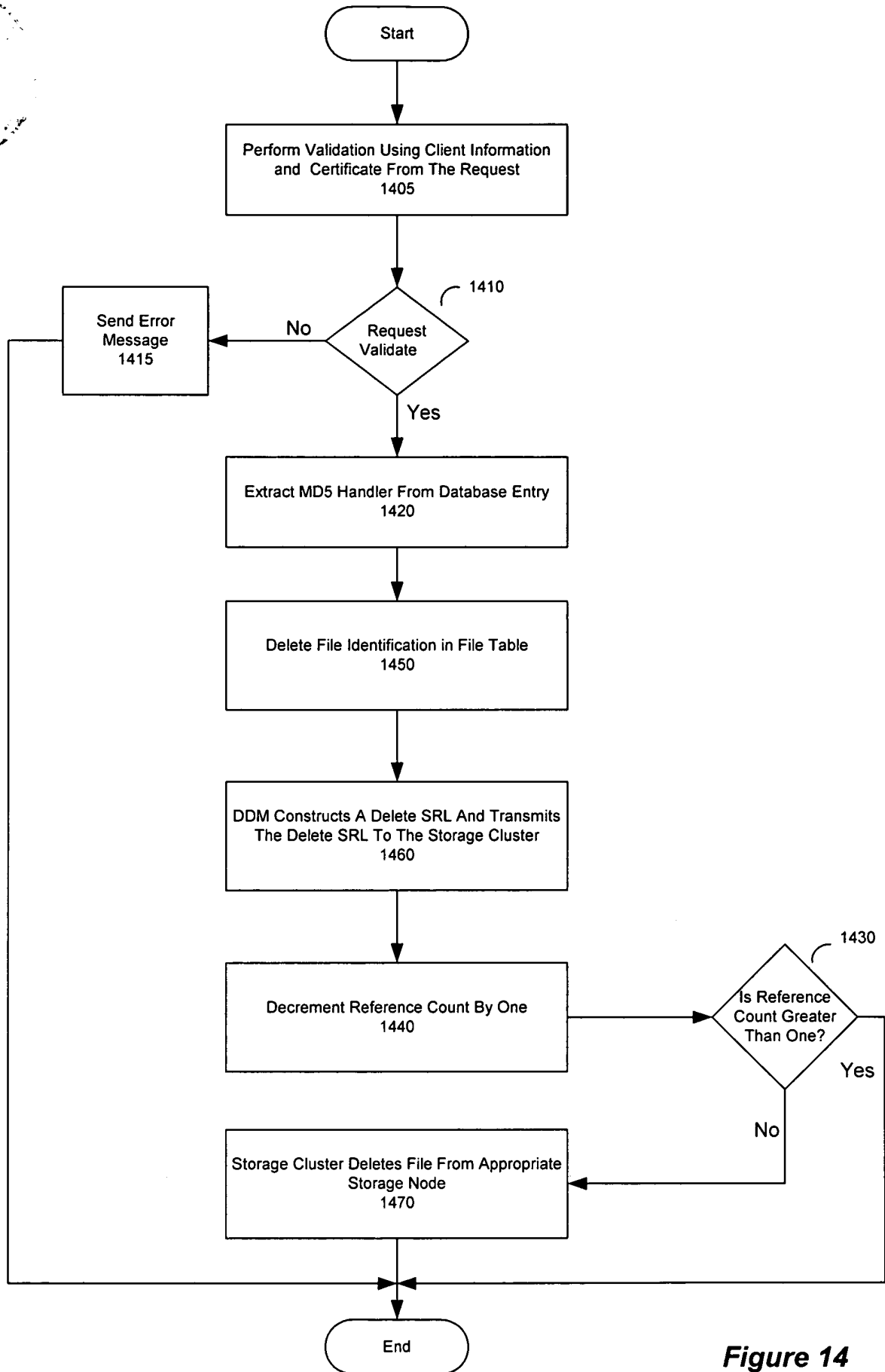
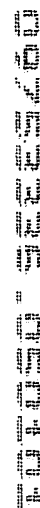


Figure 13B



**Figure 14**





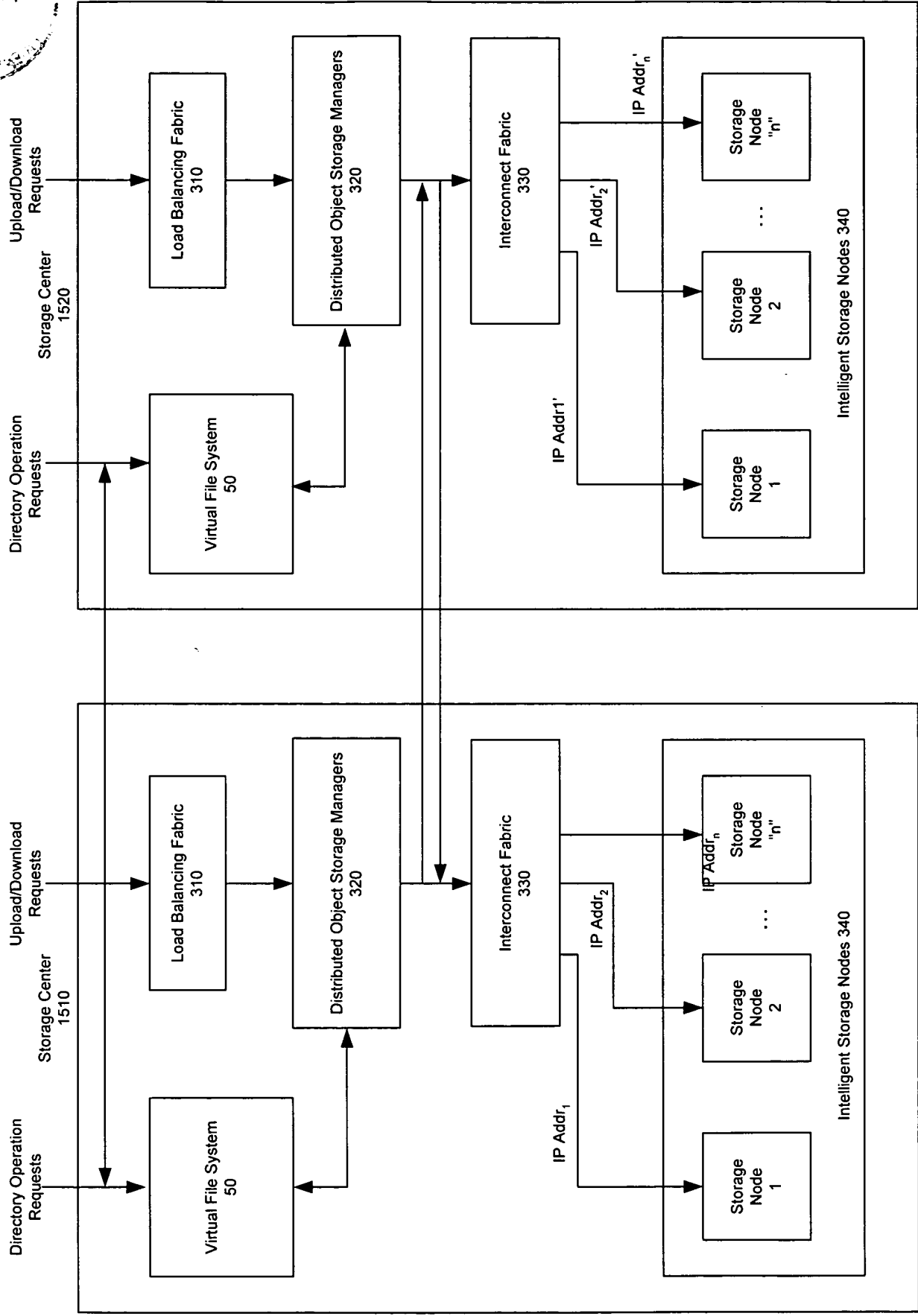


Figure 16



FIG. 17 is a block diagram of a network architecture for content delivery, showing the interconnections between various components.

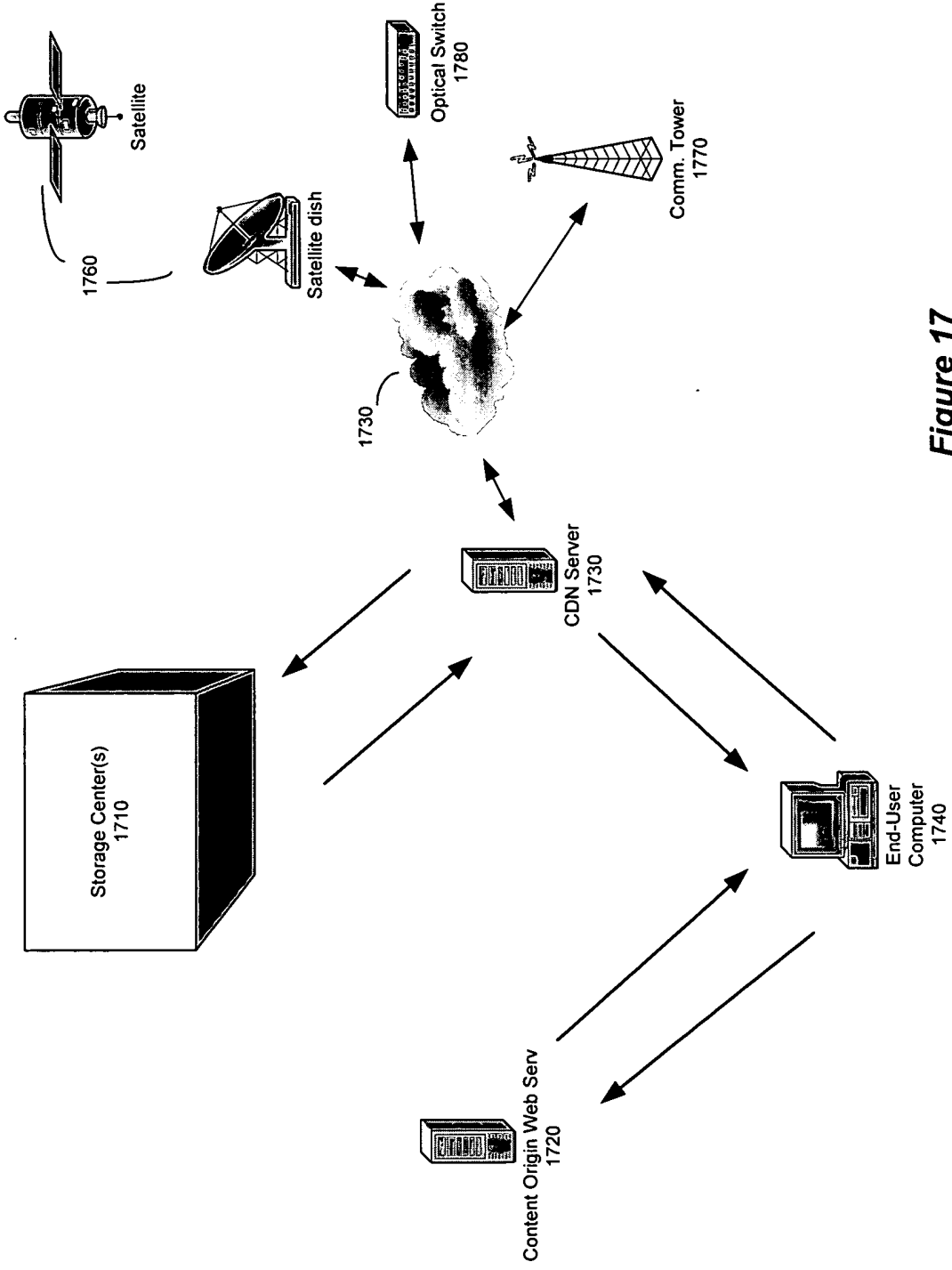
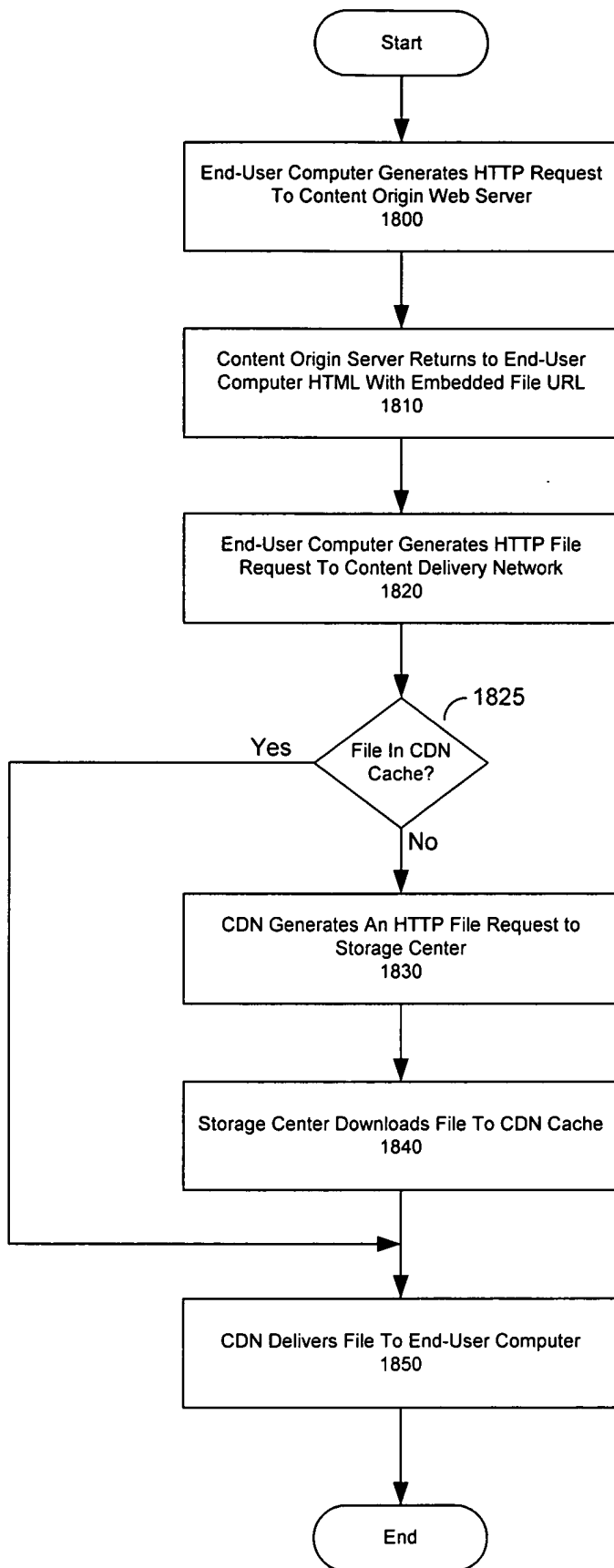
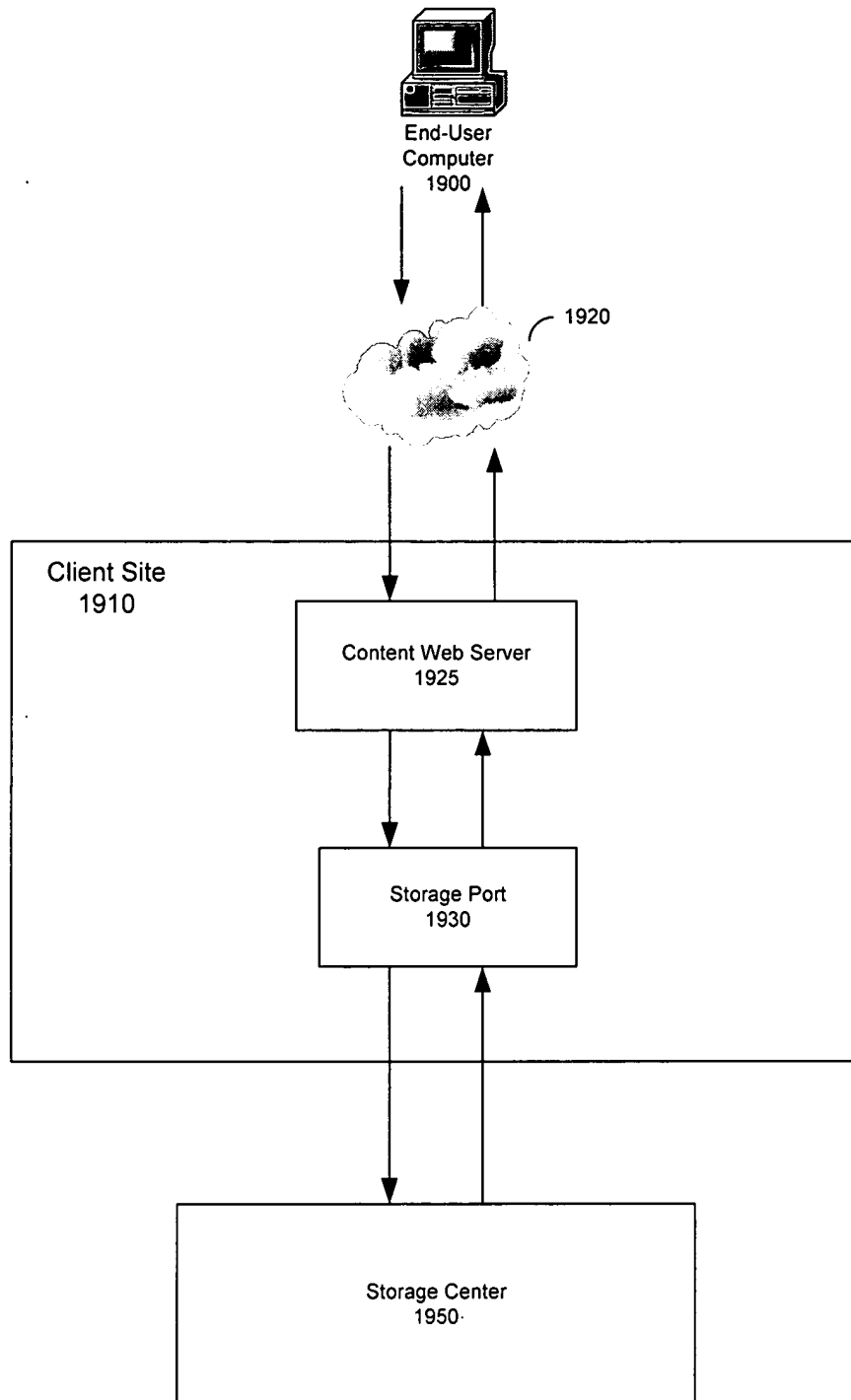


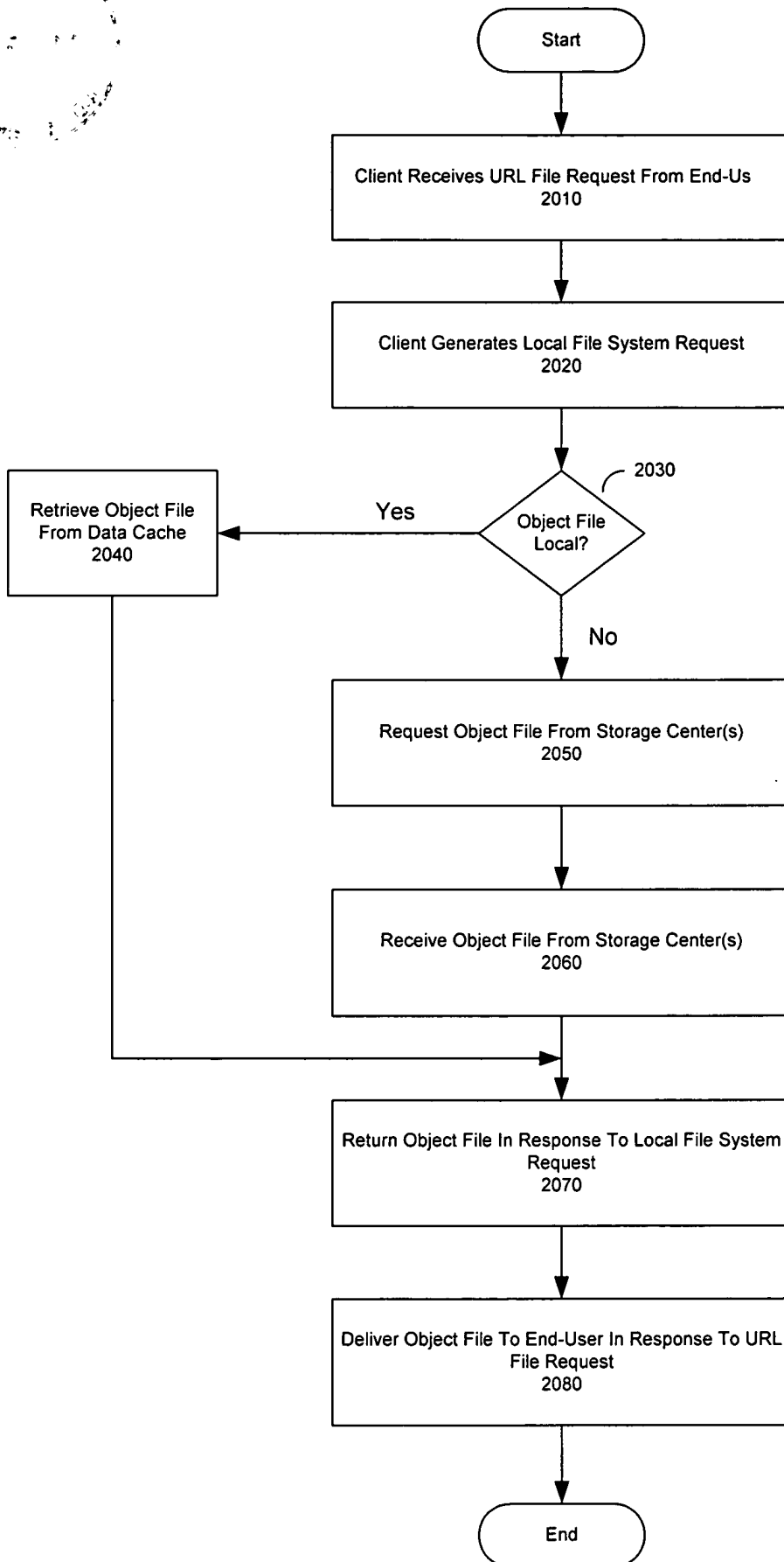
Figure 17



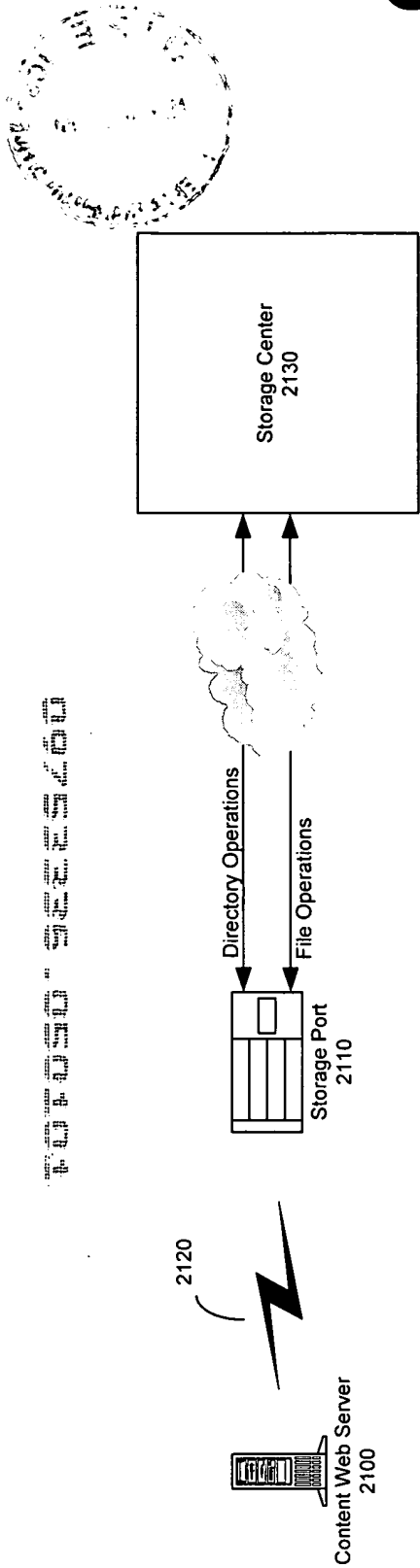
**Figure 18**



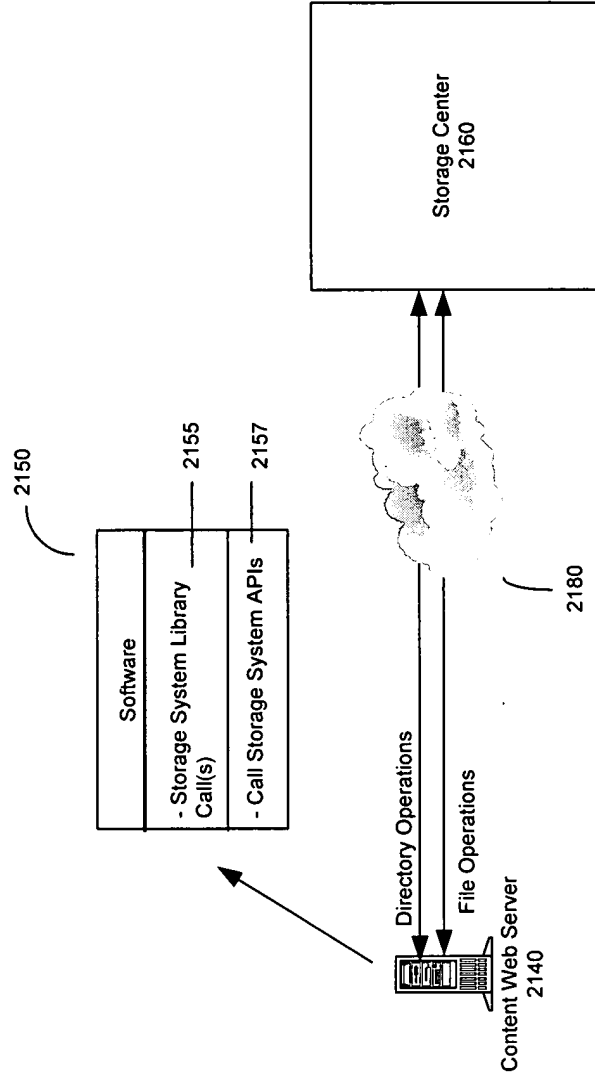
**Figure 19**



**Figure 20**



**Figure 21a**



**Figure 21b**

FIG. 22

Storage Port  
2200

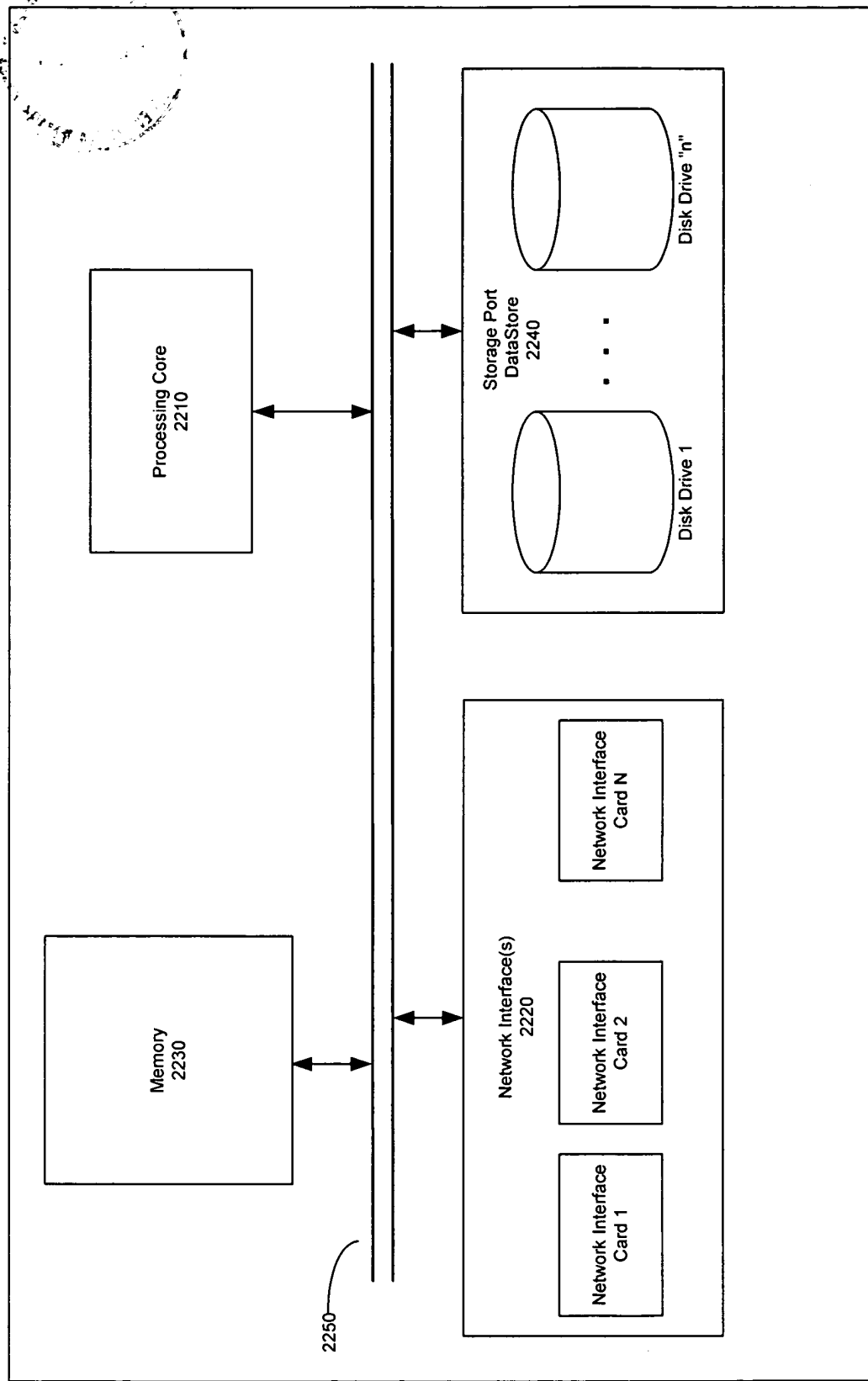
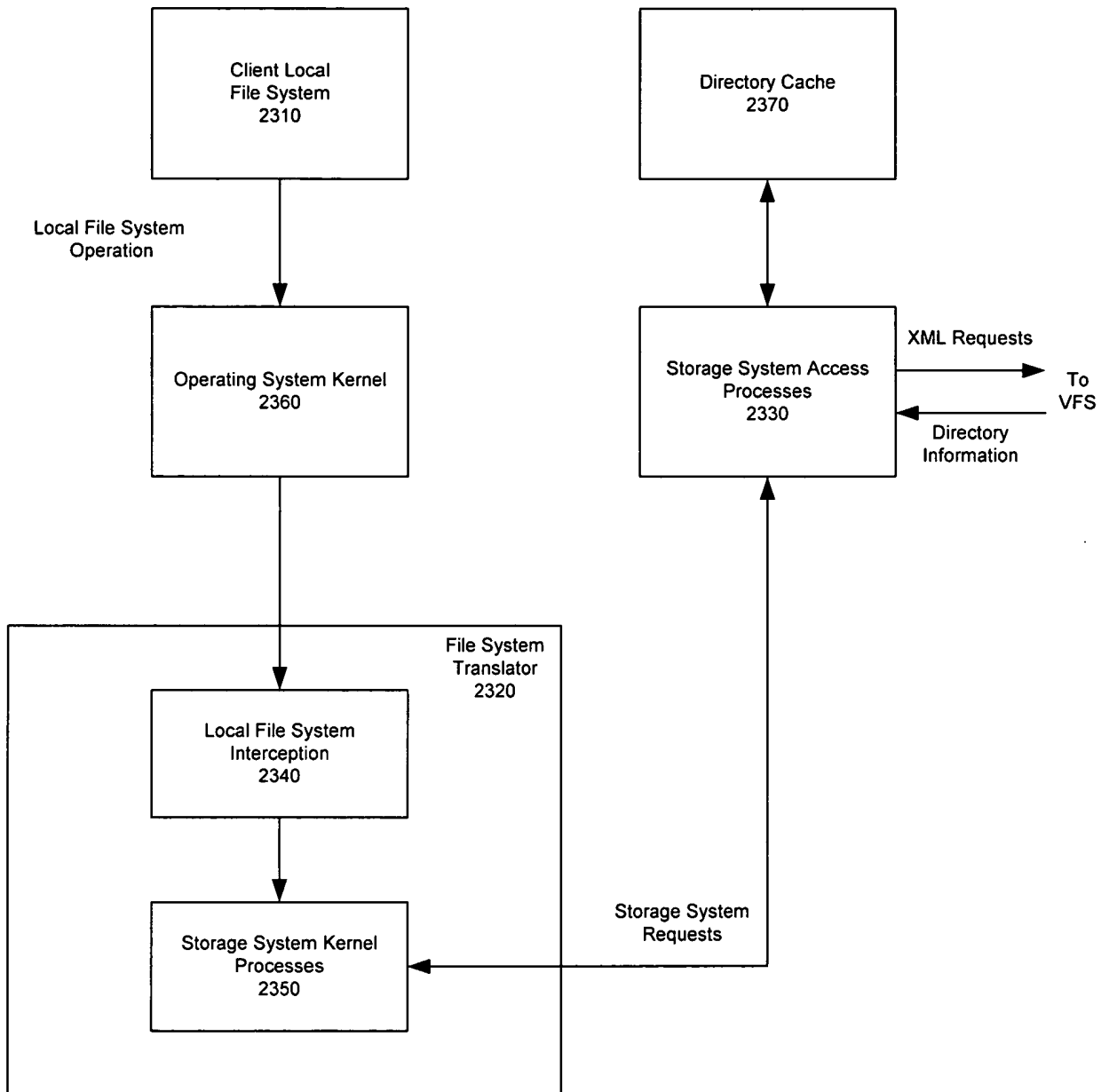


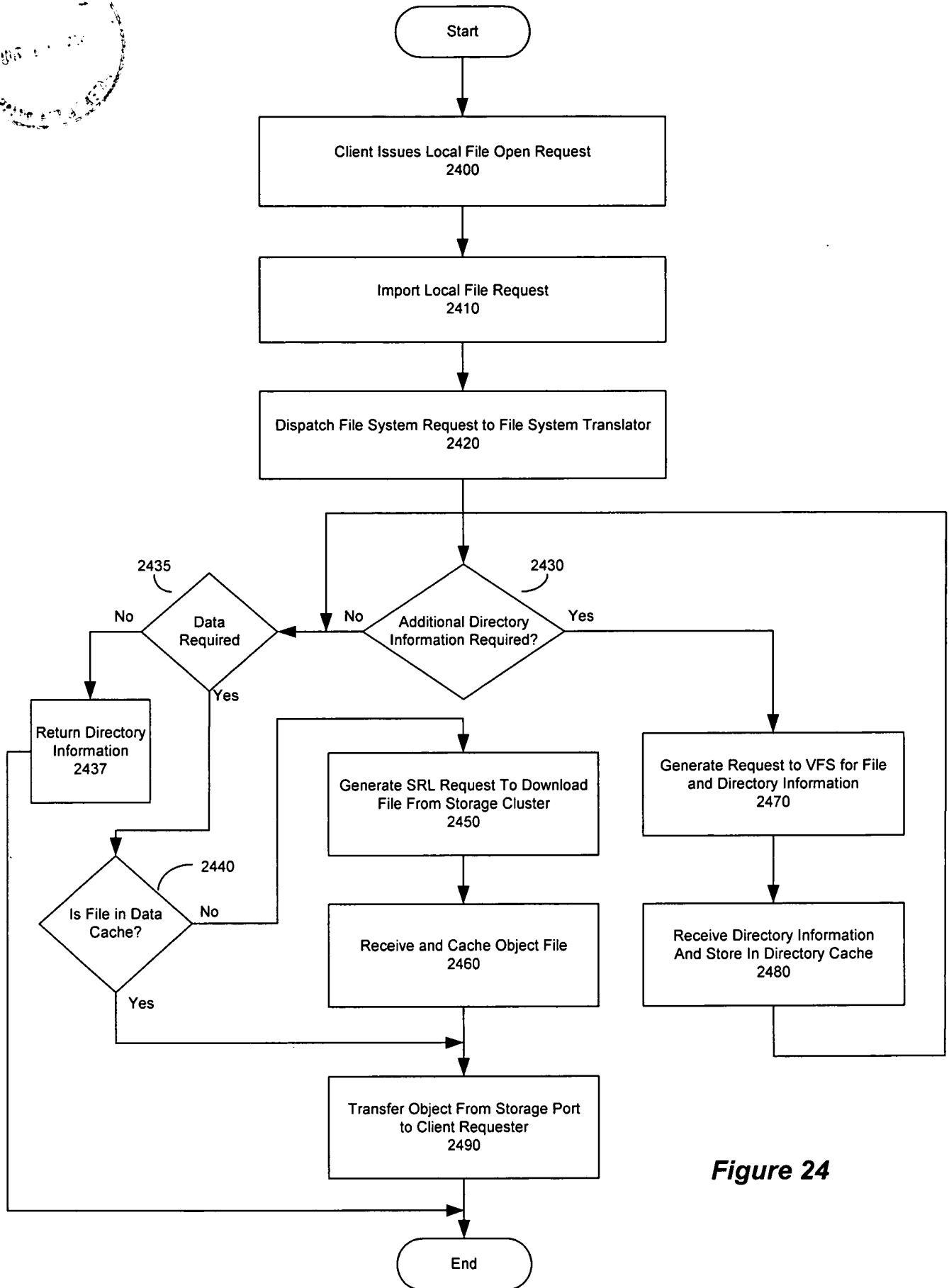
Figure 22

2300



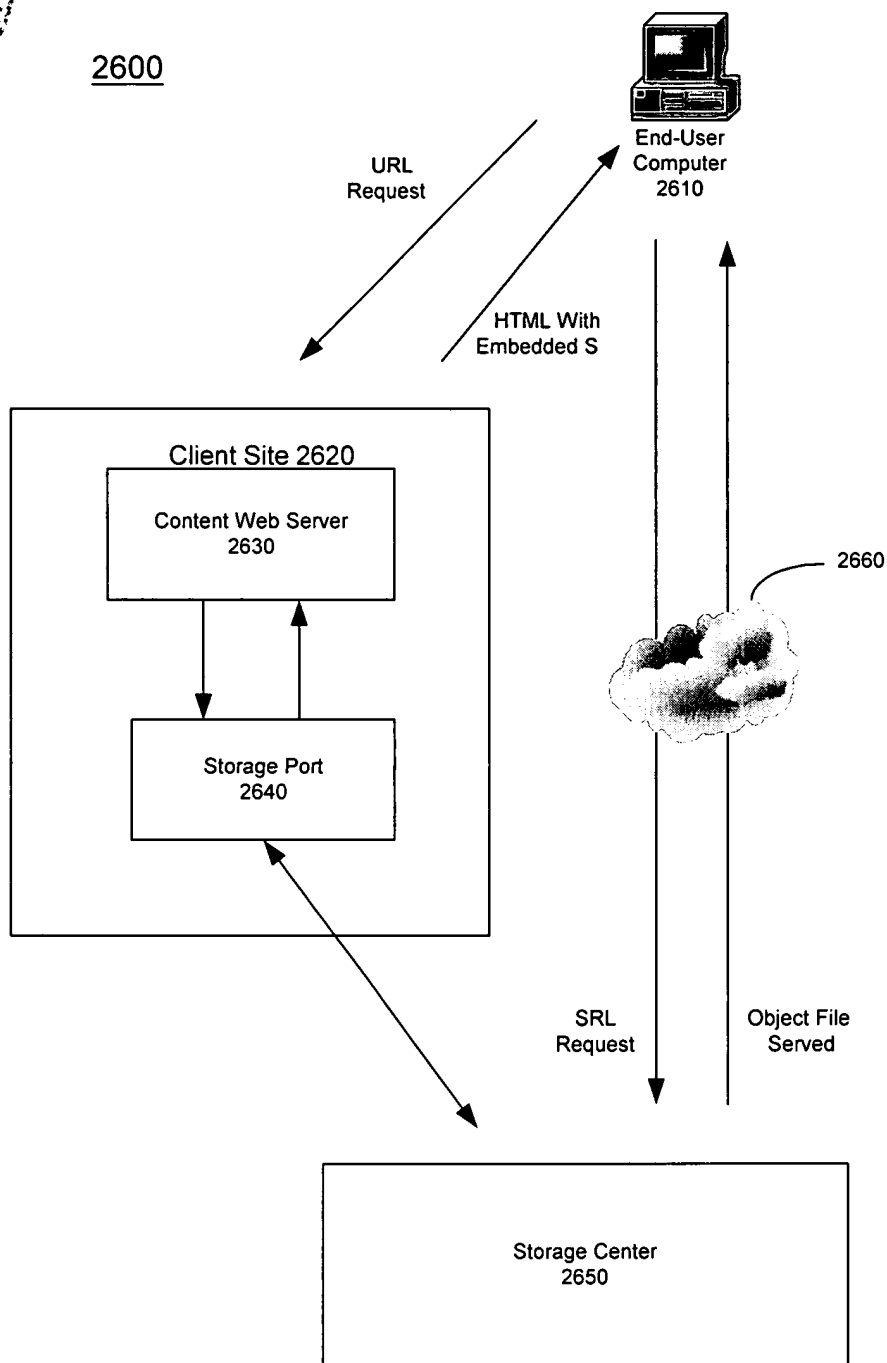
**Figure 23**



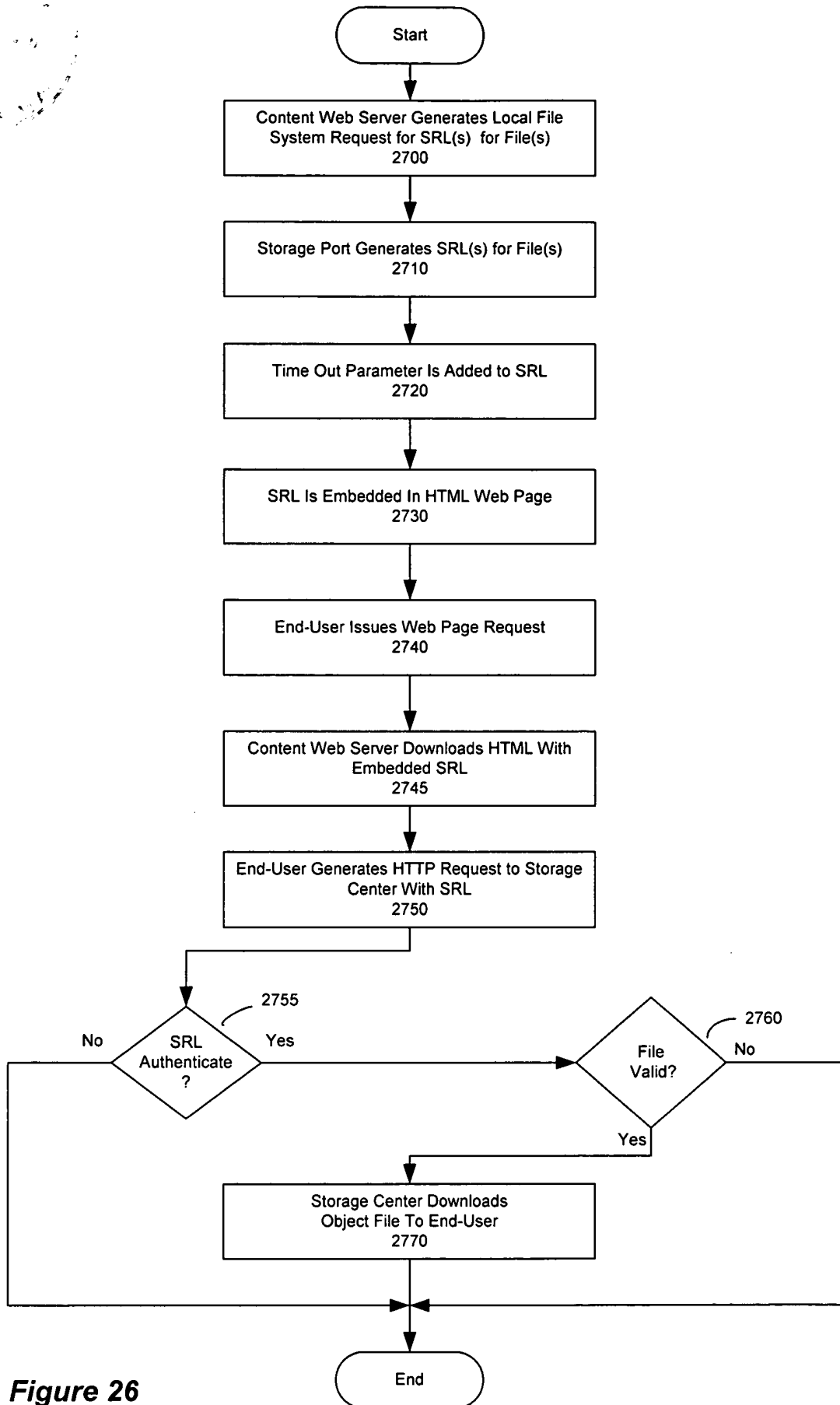


**Figure 24**

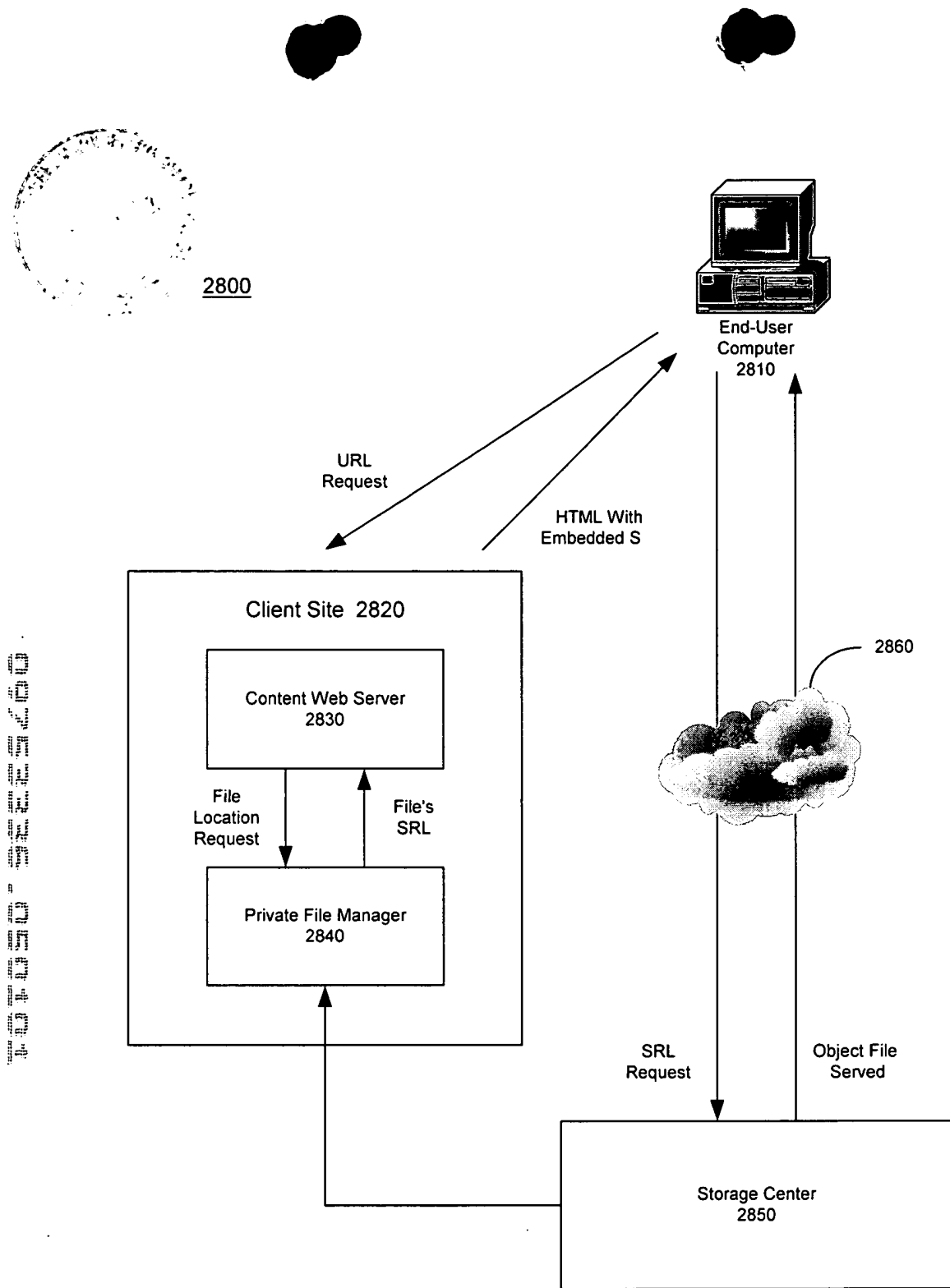
2600



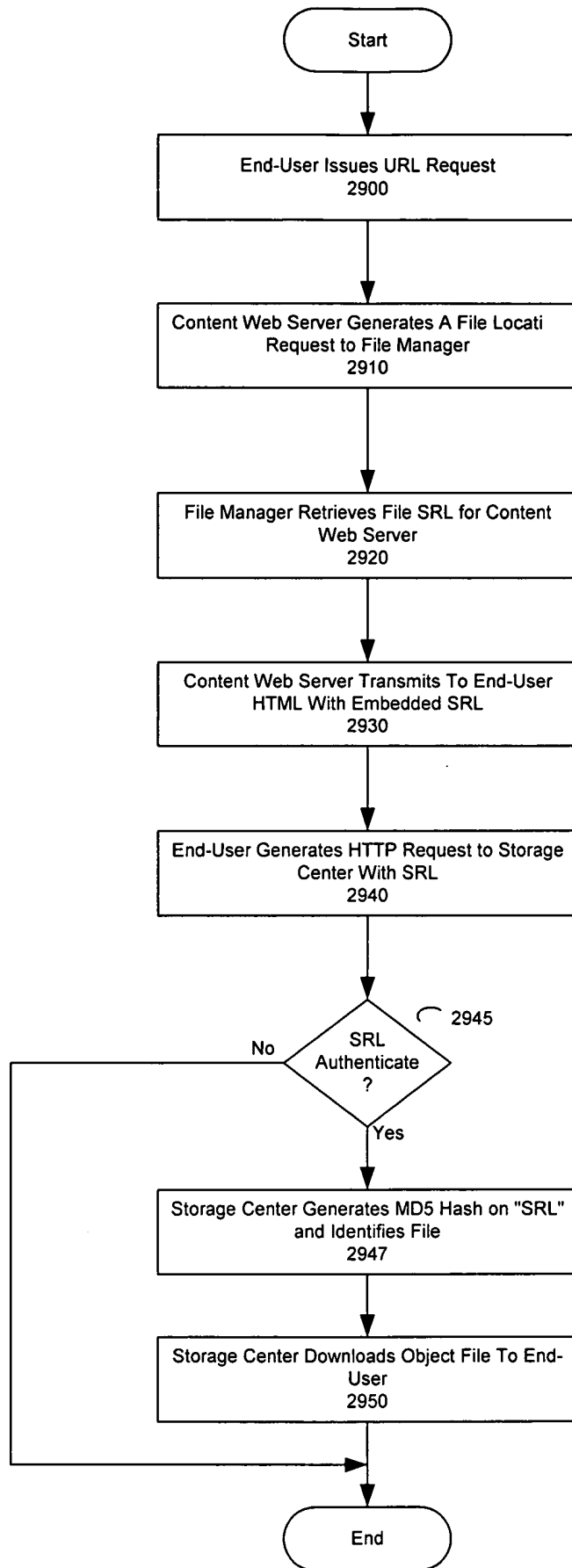
**Figure 25**



**Figure 26**



**Figure 27**



**Figure 28**



FIG. 29 is a block diagram of a system architecture for a client site network. The system includes an Active Storage Port 3010 and a Passive Storage Port 3020, both connected to a Client Site Network 3060. The Active Storage Port 3010 includes a Network Interface 3045, a Network Interface 3055, and Health Monitoring 3070. The Passive Storage Port 3020 includes a Network Interface 3025, a Network Interface 3030, and Health Monitoring 3080. A Failover Monitoring component is shown between the two storage ports. A cloud icon 3065 is connected to the Network Interface 3045 of the Active Storage Port 3010 and the Network Interface 3025 of the Passive Storage Port 3020. An IP Address (IP Addr) is shown at the top of the diagram.

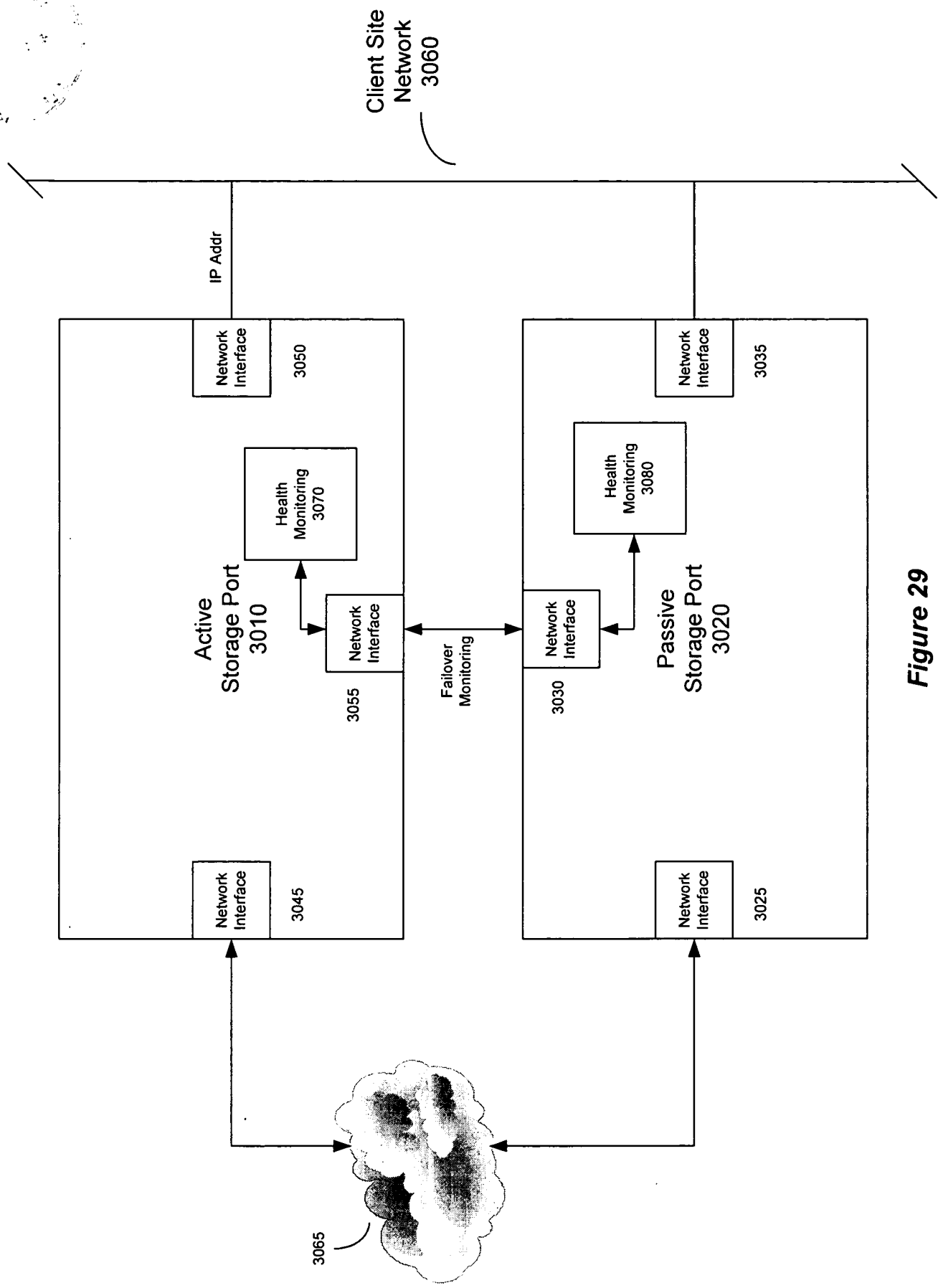
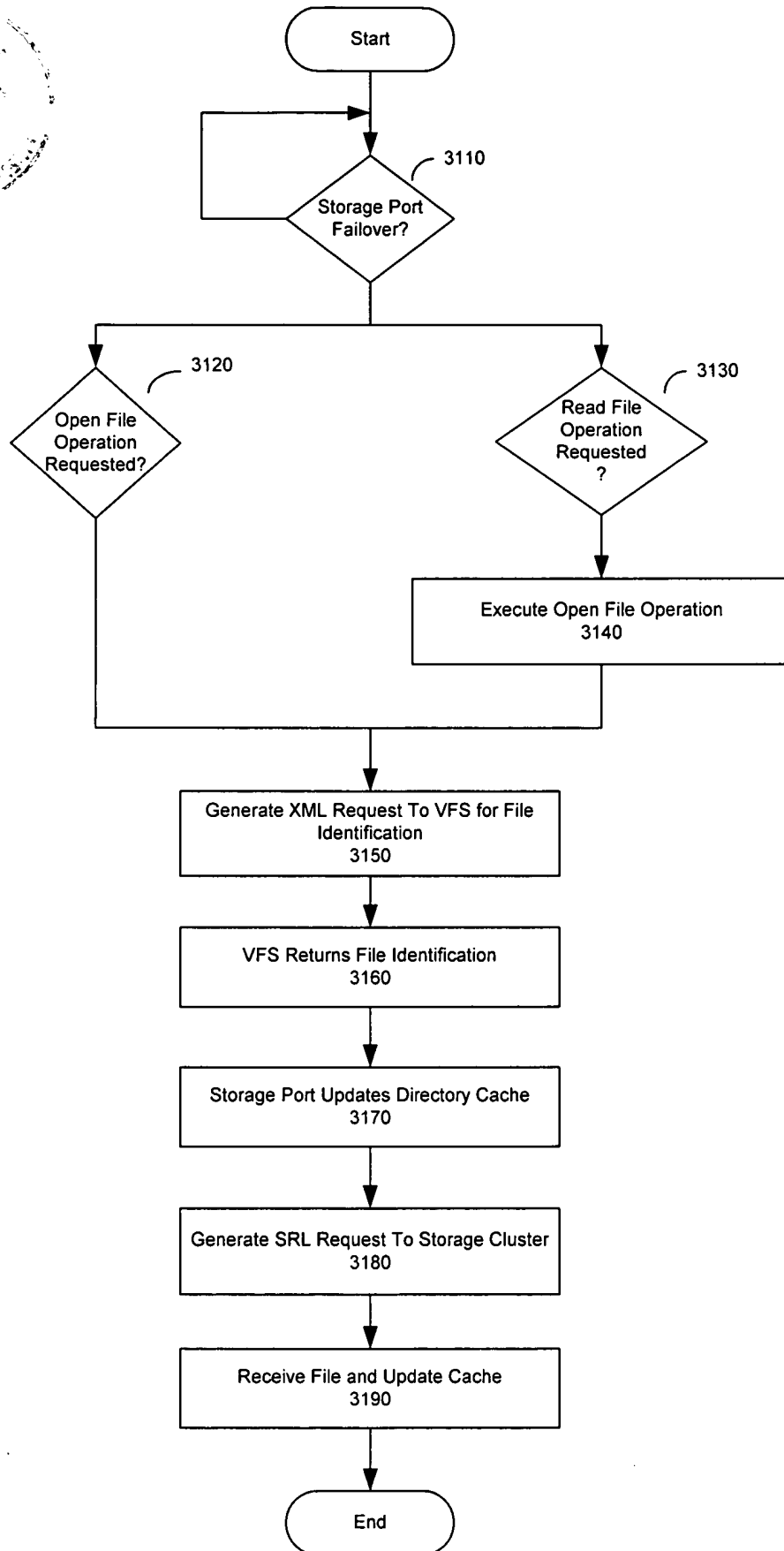
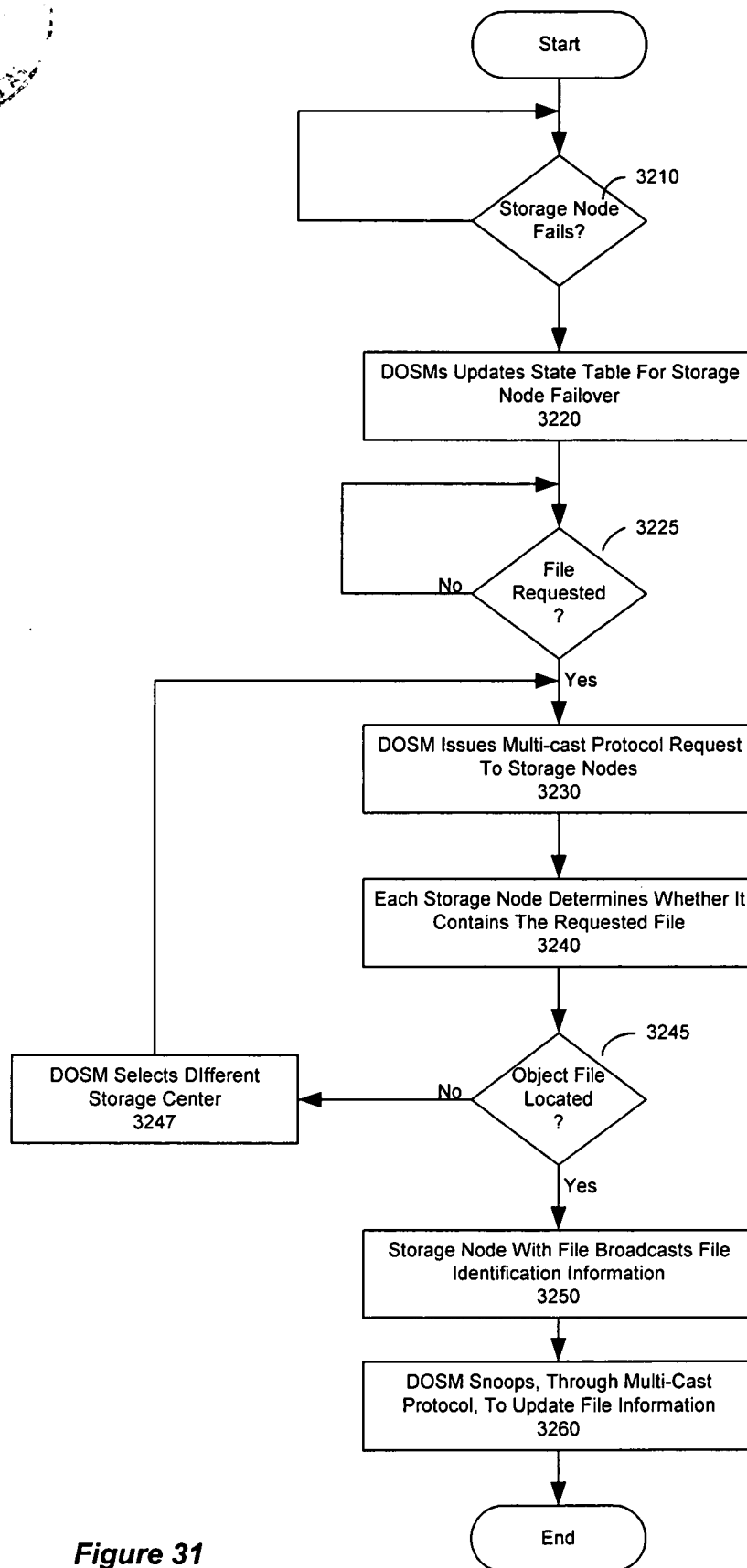


Figure 29



**Figure 30**



**Figure 31**